

FIG. 1

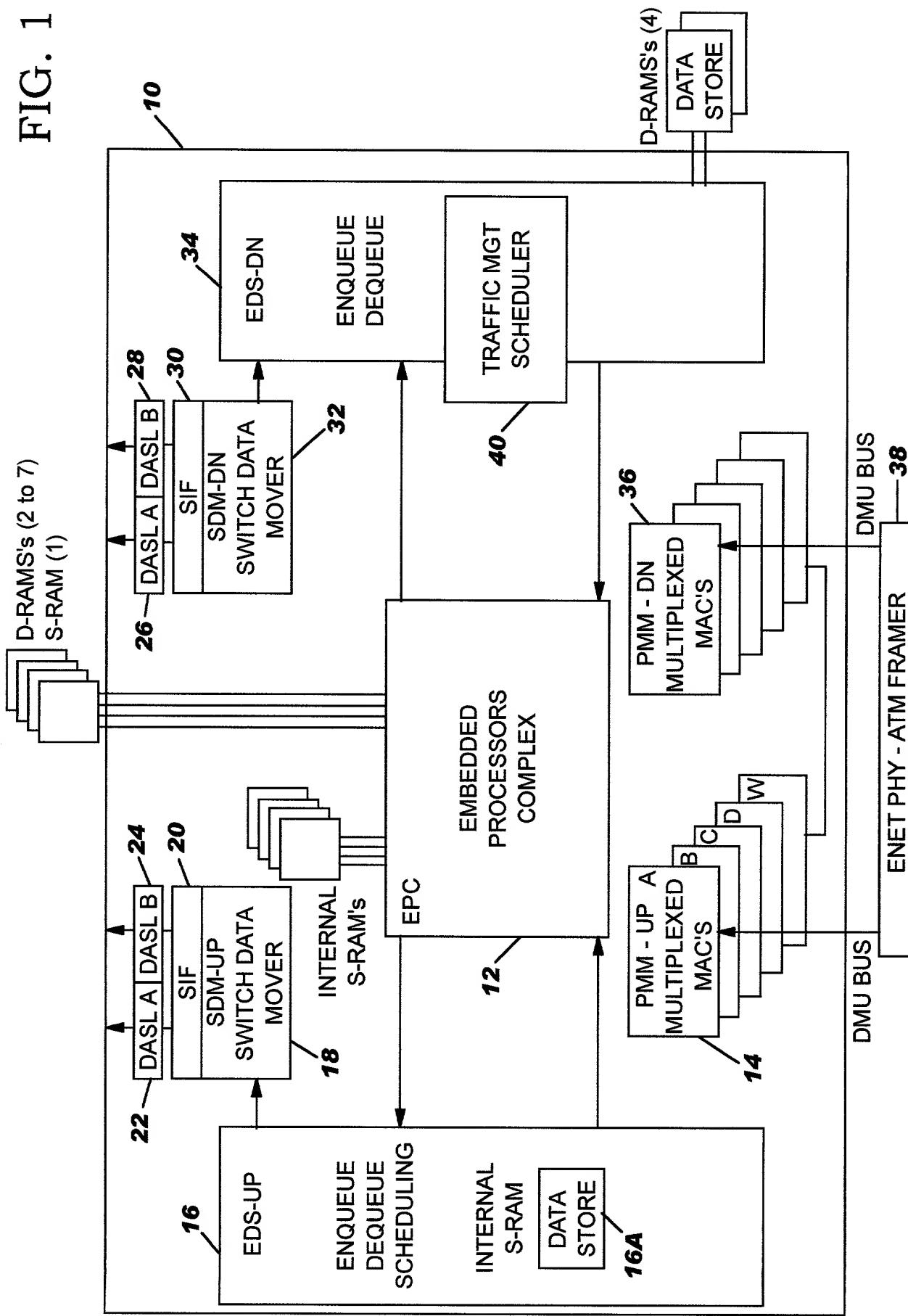


FIG. 2

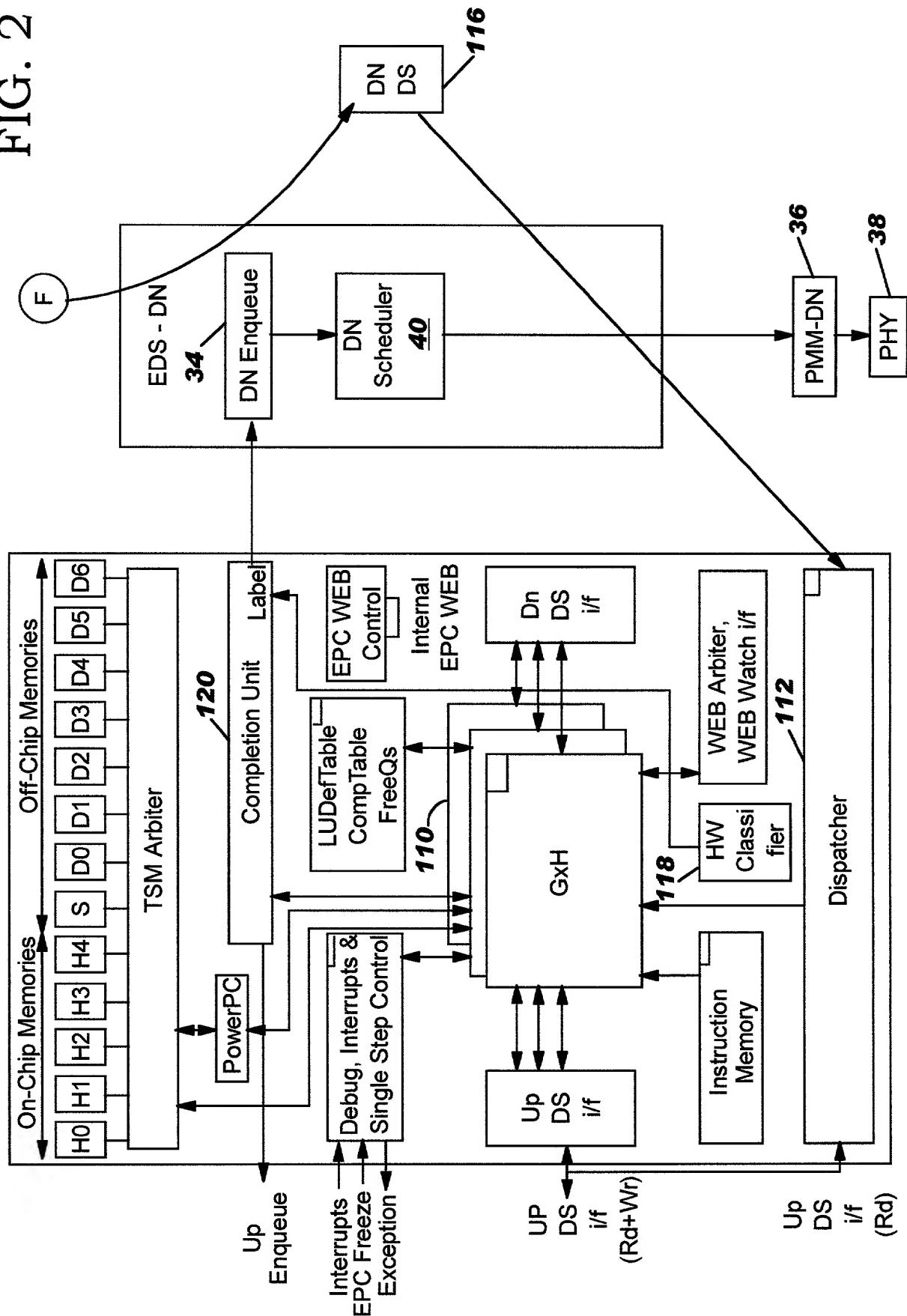


FIG. 3

Egress Dataflow Diagram

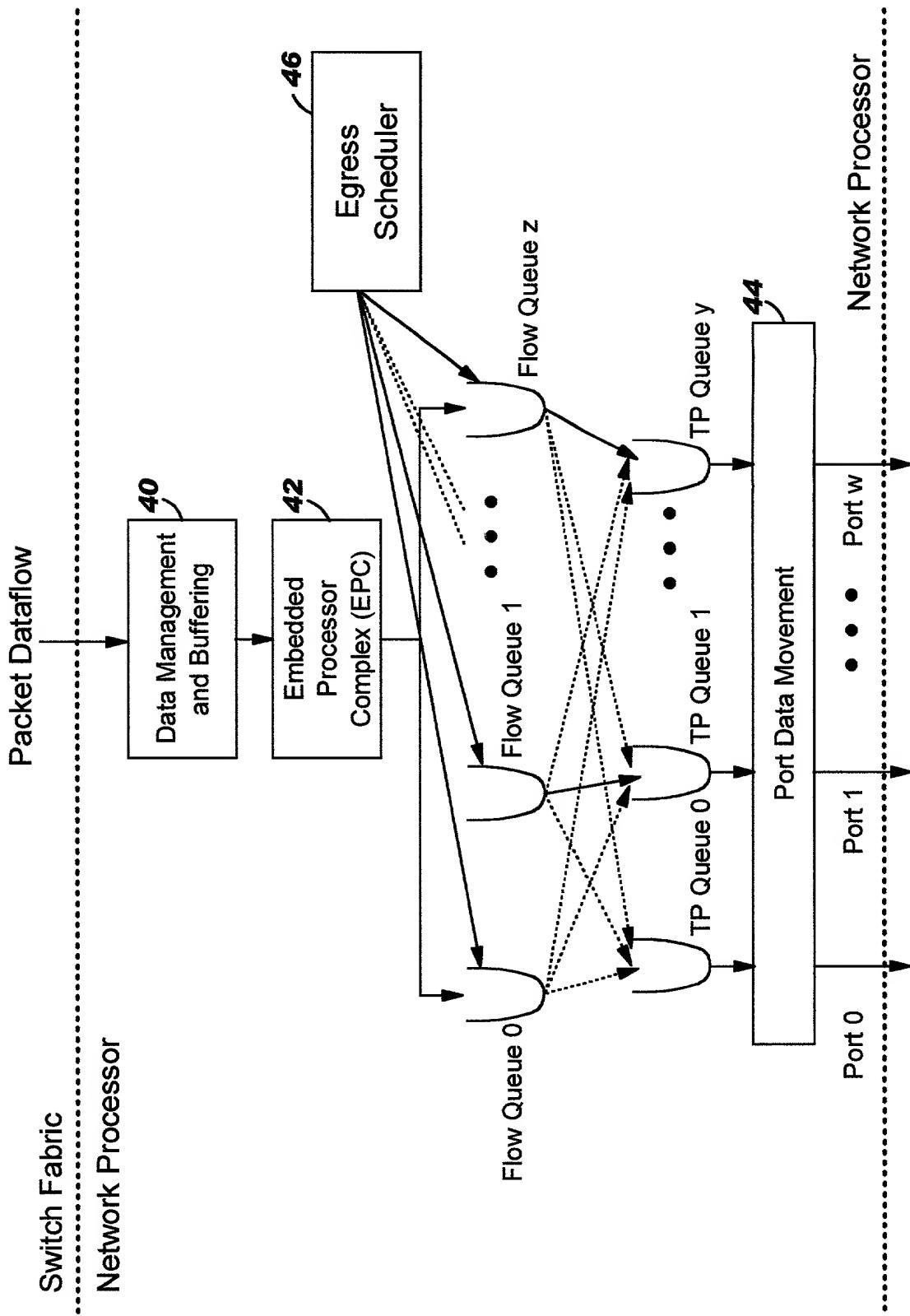


FIG. 4

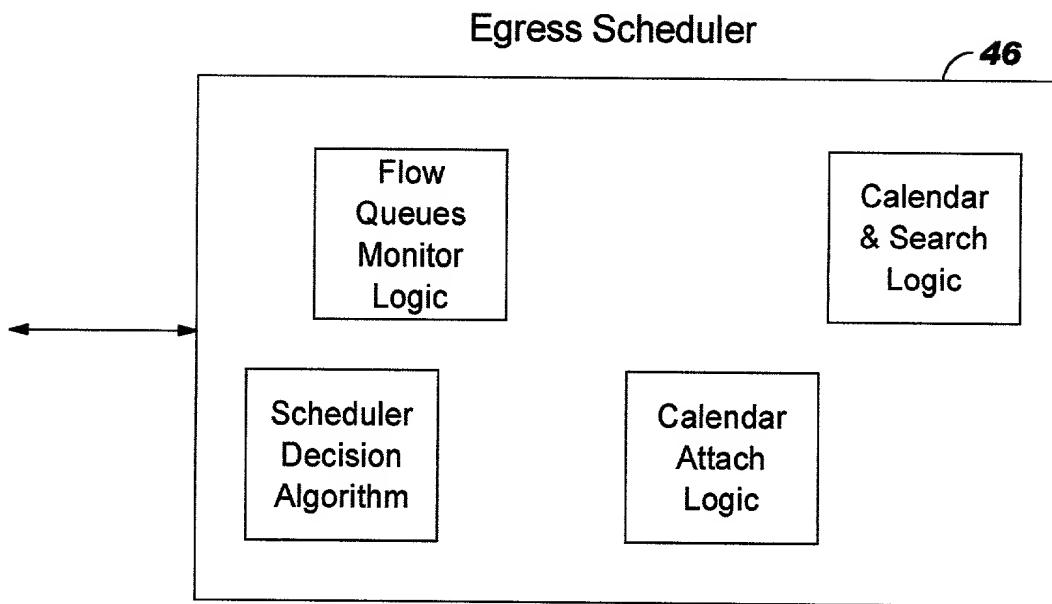


FIG. 5

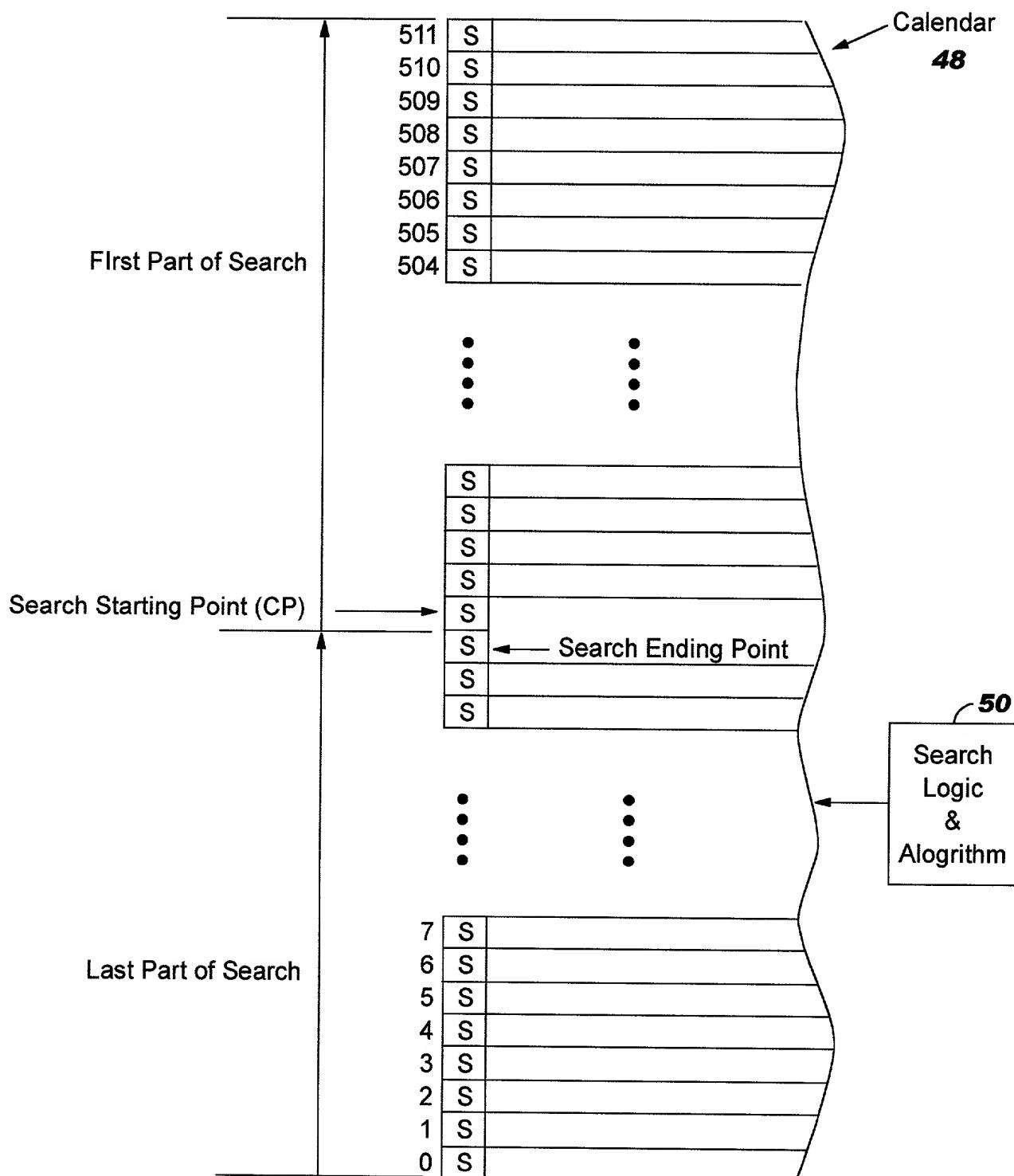
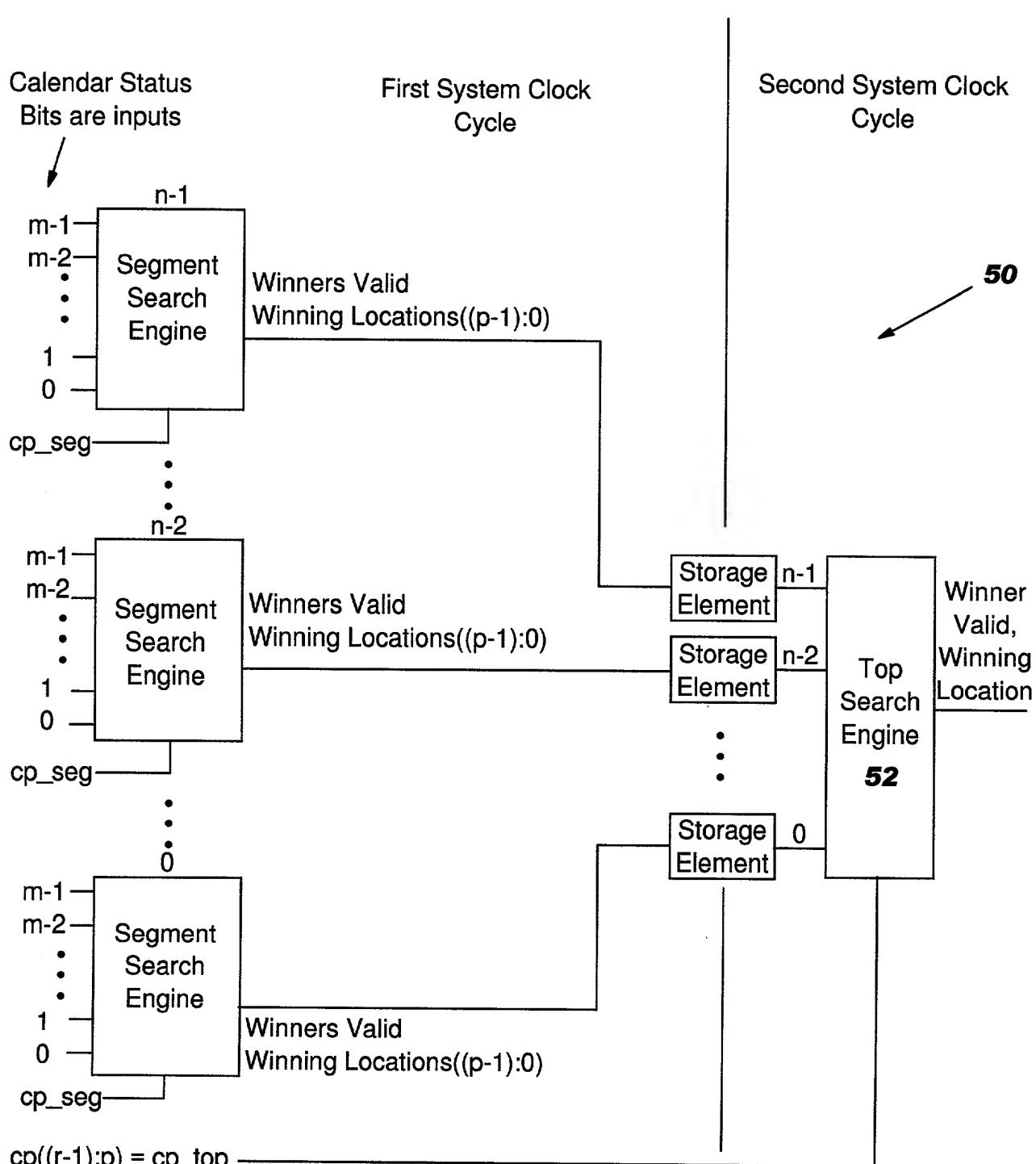


FIG. 6

FIGURE 6A: SEARCH LOGIC



cp = search starting point

n = number of equal segments

r = $\log_2(\text{num_entries})$

m = total number of entries/number of equal segments

p = $\log_2(\text{total number of entries}/n)$

FIG. 7

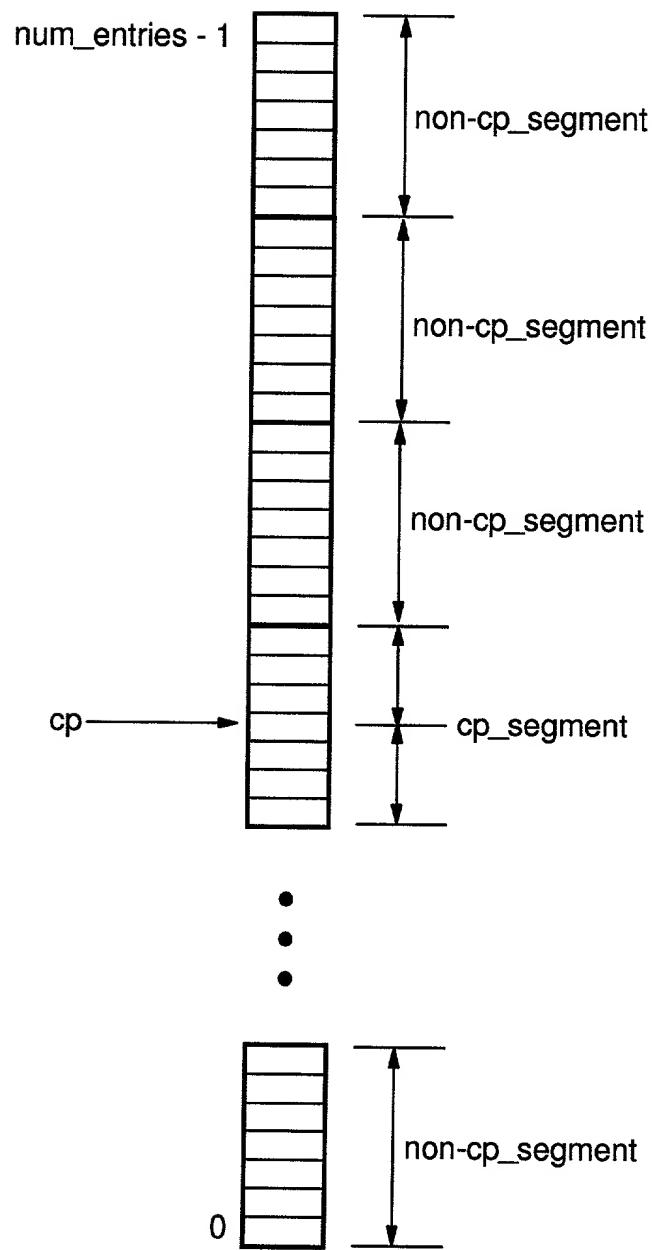


FIG. 8A

Diagram for Segment Search
Assuming That cp is In This Segment

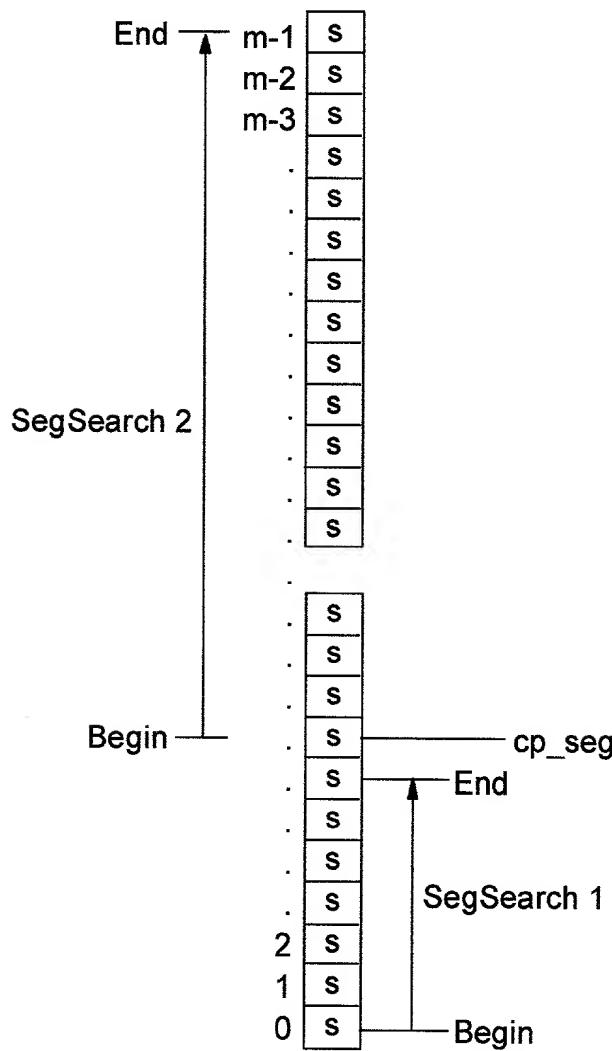


FIG. 8B

Diagram for Segment Search Assuming
That cp is Not In This Segment

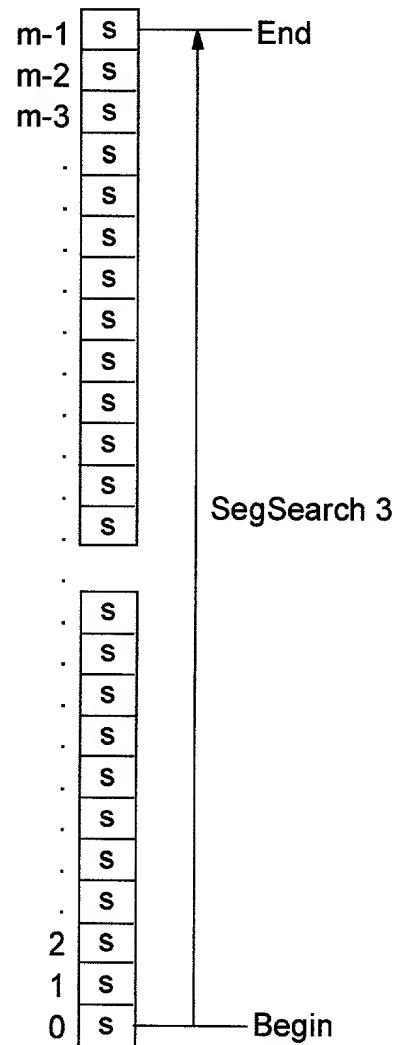


FIG. 9
Segment Search Diagram Assuming
cp is In This Segment

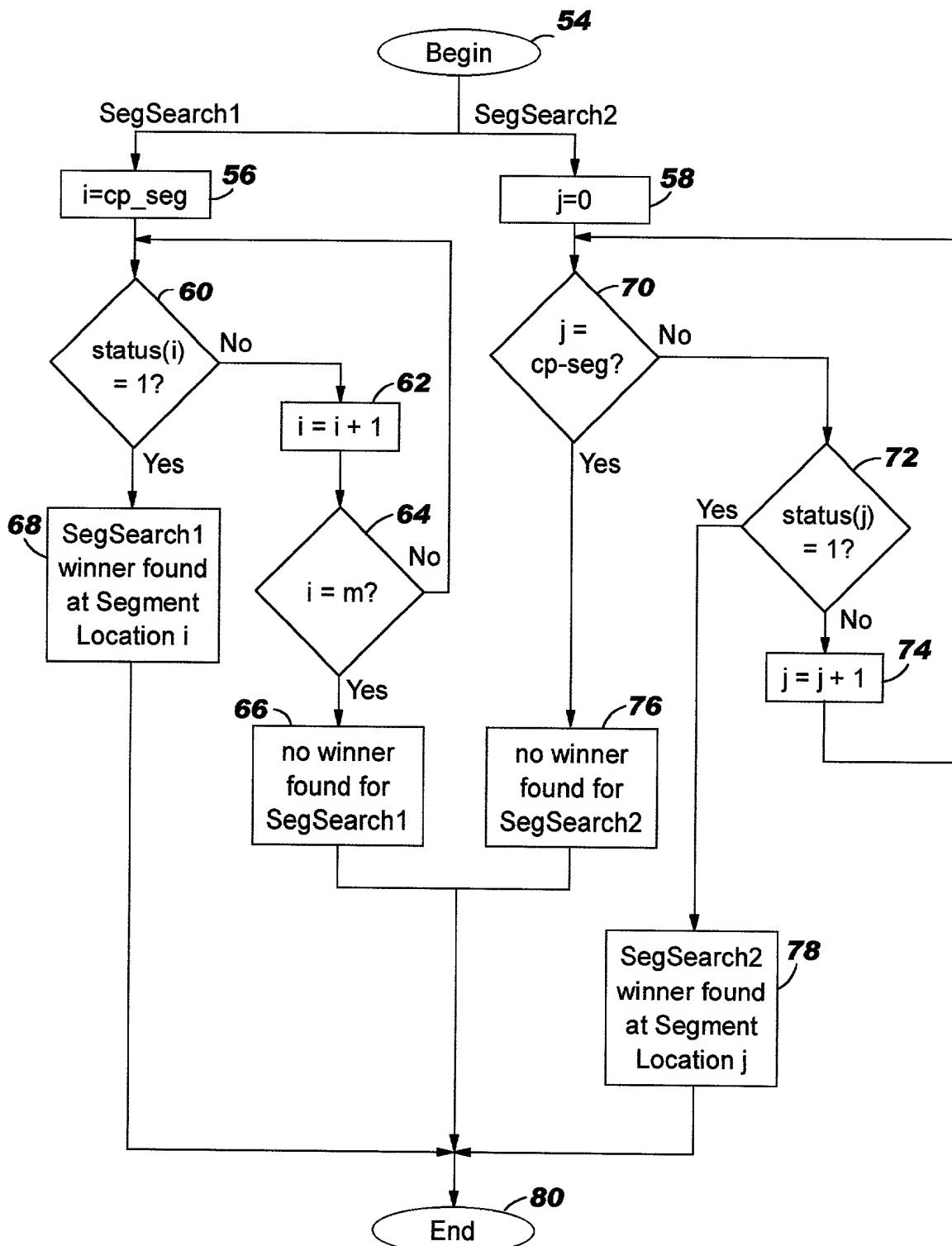


FIG. 10

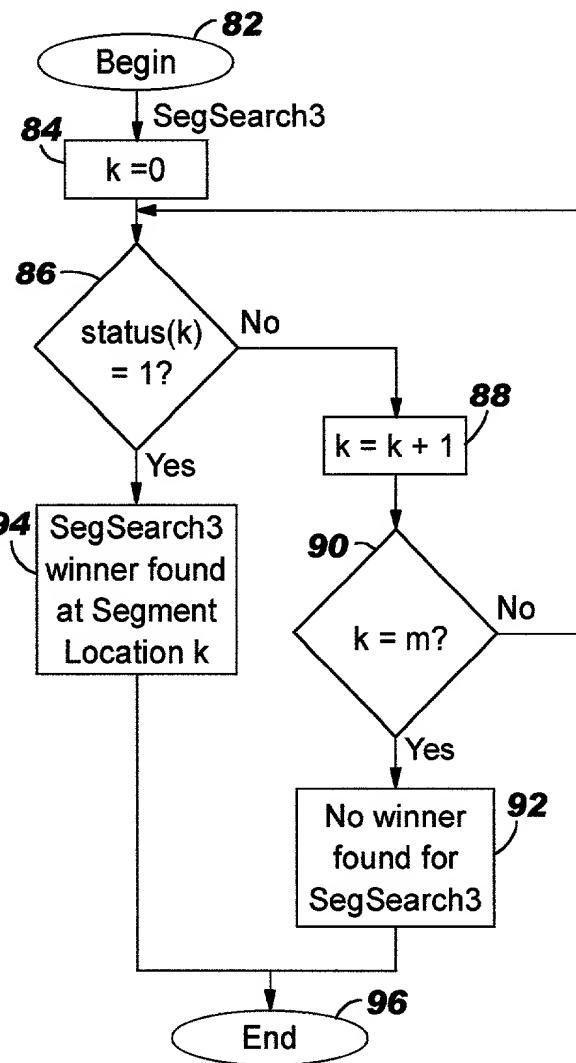


FIG. 11
 Segment Search Outputs

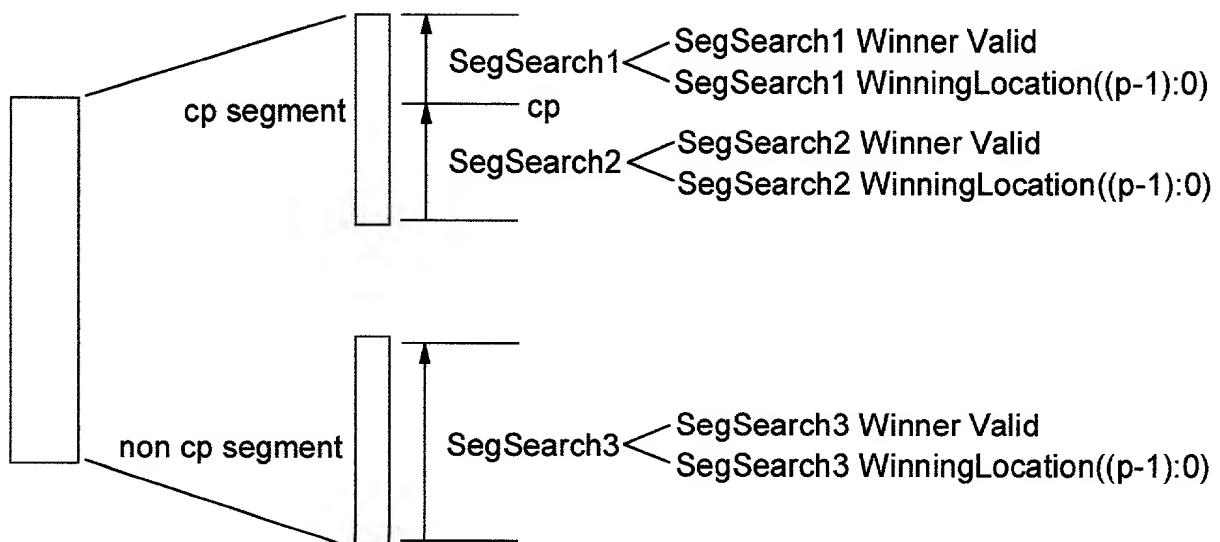


FIG. 12

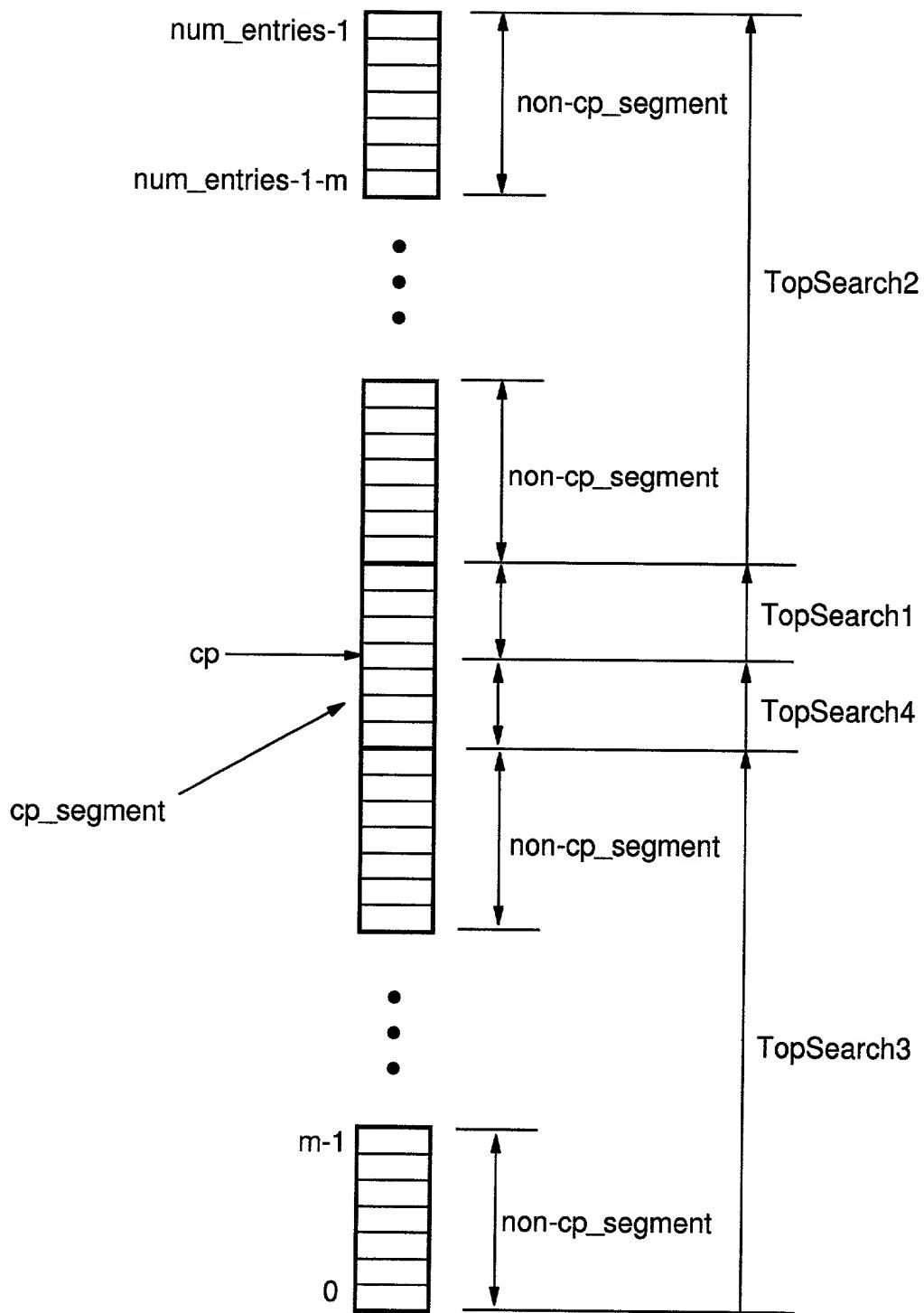


FIG. 13

